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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/595,179	08/21/2006	Guillermo C. Bazan	1279-454	3968
62836 7590 10/12/2010 BERLINER & ASSOCIATES			EXAMINER	
555 WEST FIF 31ST FLOOR		WALTERS JR, ROBERT S		
LOS ANGELES	S, CA 90013		ART UNIT	PAPER NUMBER
			1711	
			MAIL DATE	DELIVERY MODE
			10/12/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/595,179	BAZAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	ROBERT S. WALTERS JR	1711				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period for Reply	/ IO OFT TO EVEIDE - MONTH!	0) 0D THIRTY (00) BANG				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 30 Au	ugust 2010.					
	action is non-final.					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.						
4a) Of the above claim(s) <u>10 and 13-20</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-9,11 and 12</u> is/are rejected. 7)□ Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
· · · · · · · · · · · · · · · · · · ·						
Application Papers						
9) The specification is objected to by the Examine		_				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correct	• • • • • • • • • • • • • • • • • • • •	, ,				
11) The oath or declaration is objected to by the Ex	• • • • • • • • • • • • • • • • • • • •	•				
Priority under 35 U.S.C. § 119						
<u> </u>	mulanitu undan 3E I I C C C 110/a)	\				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1.☐ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau	ı (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not receive	d.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P					
Paper No(s)/Mail Date	6) Other:	• •				

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DETAILED ACTION

Status of Application

Claims 1-20 are pending. Claims 10 and 13-20 are withdrawn. Claims 1-9, 11 and 12 are presented for examination.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 7/27/2010 has been entered.

Response to Amendment

The declaration filed on 2/5/2010 under 37 CFR 1.131 has been considered but is ineffective to overcome the Huang et al. reference.

- 1. The inventors have not signed the affidavit.
- The following parties may make an affidavit or declaration under 37 CFR 1.131:
- (A) All the inventors of the subject matter claimed.
- (B) An affidavit or declaration by less than all named inventors of an application is accepted where it is shown that less than all named inventors of an application invented the subject matter of the claim or claims under rejection. For example,

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one of two joint inventors is accepted where it is shown that one of the joint inventors is the sole inventor of the claim or claims under rejection.

- (C) If a petition under 37 CFR 1.47 was granted or the application was accepted under 37 CFR 1.42 or 1.43, the affidavit or declaration may be signed by the 37 CFR 1.47 applicant or the legal representative, where appropriate.
- (D) The assignee or other party in interest when it is not possible to produce the affidavit or declaration of the inventor. Ex parte Foster, 1903 C.D. 213, 105 O.G. 261 (Comm'r Pat. 1903).
- 2. The affidavit does not contain an allegation that the acts relied upon to establish the date prior to the reference or activity were carried out in this country or in a NAFTA country or WTO member country.

Response to Arguments

Applicant's arguments filed 7/27/2010 have been fully considered but they are not persuasive. The applicant argues that they have provided evidence that establish their invention prior to the effective date of the Huang et al. reference, thereby rendering the rejections of the claims over this reference improper. However, as noted above, the declaration is ineffective to overcome the Huang et al. reference. Therefore, the examiner maintains the previous rejections.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

1. Claims 1, 2, 4 and 6-8 are rejected under 35 U.S.C. 102(a) as being anticipated by Huang et al. ("Novel Electroluminescent Conjugated Polyelectrolytes Based on Polyfluorene" Chem. Mater. 2004, 16, 708-716).

Regarding claims 1, 2, 4 and 6-8, Huang teaches a method of forming adjacent layers of conjugated polymers on a substrate (pg 709, 2nd column, LED Fabrication and Characterization Section, the double-layer device) comprising:

- (a) providing a first solution comprising a water-soluble cationic conjugated polymer (the polyelectrolytes, see P4, page 711) and a polar solvent, such as methanol (pg 709, 2nd column, LED Fabrication and Characterization Section) or water (pg 716, 2nd column, line 8-top of the Conclusion section);
- (b) providing a second solution comprising a second conjugated polymer (such as MEH-PPV) in a second solvent (see pg 709, 2nd column, LED Fabrication and Characterization Section);
- (c) depositing a first layer of the MEH-PPV solution onto a substrate by spin-casting (see pg 709, 2nd column, LED Fabrication and Characterization Section);
- (d) depositing a second layer of the polyelectrolyte on the first layer by spin-casting (pg 709, 2nd column, LED Fabrication and Characterization Section);

wherein the polymer deposited in the first layer does not dissolve in the solvent deposited in the second layer (note MEH-PPV is not soluble in methanol, see also pg 716, 2nd column, line 8-top of the Conclusion section).

Huang teaches all the critical limitations of claims 1, 2, 4 and 6-8, therefore Huang anticipates these claims.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later

invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

2. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Huang in view of Hsu (U.S. PGPUB No. 2003/0222250).

Regarding claim 3, Huang teaches all the limitations of claim 1, but fails to teach the inclusion of a detergent. However, Hsu teaches a method of preparing light-emitting diodes (abstract) by preparing a mixture comprising an electrically conducting polymer and a surfactant (abstract), comparable to a detergent. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Huang's method by including a detergent in the solution with the conjugated polymer. One would have been motivated to make this modification as Hsu teaches that the inclusion of the surfactant facilitates coating of the polymer, improves device performance, and facilitates the use of flexible substrates (0011).

3. Claims 5, 9, 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Huang in view of Yu et al. (U.S. PGPUB No. 2004/0094768).

Regarding claims 5, 9, 11 and 12 Huang teaches all the limitations of claims 1 and 6, but fails to teach the substrate being a film or rigid. However, Yu teaches method for making PLED's (abstract and 0059) by applying polymers by drop-casting or ink jet printing (0058) to substrates that can be rigid or films (0054). It would have been obvious to one of ordinary skill

in the art at the time of the invention to modify Huang's method by applying their polymer materials to substrates that can be rigid or films, as taught by Yu. One would have been motivated to make this modification as it would have been obvious to one ordinary skill in the art at the time of the invention that Huang's polymers could readily be applied to varied substrates that are rigid or films. Further, the substitution of these substrates would provide a predictable result, namely a method of fabricating a PLED.

Conclusion

Claims 1-20 are pending.

Claims 10 and 13-20 are withdrawn.

Claims 1-9, 11 and 12 are rejected.

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ROBERT S. WALTERS JR whose telephone number is (571)270-5351. The examiner can normally be reached on Monday-Thursday, 9:00am to 7:30pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on (571)272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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/Michael Barr/
Supervisory Patent Examiner, Art Unit 1711

/ROBERT S. WALTERS JR/ October 6, 2010 Examiner, Art Unit 1711